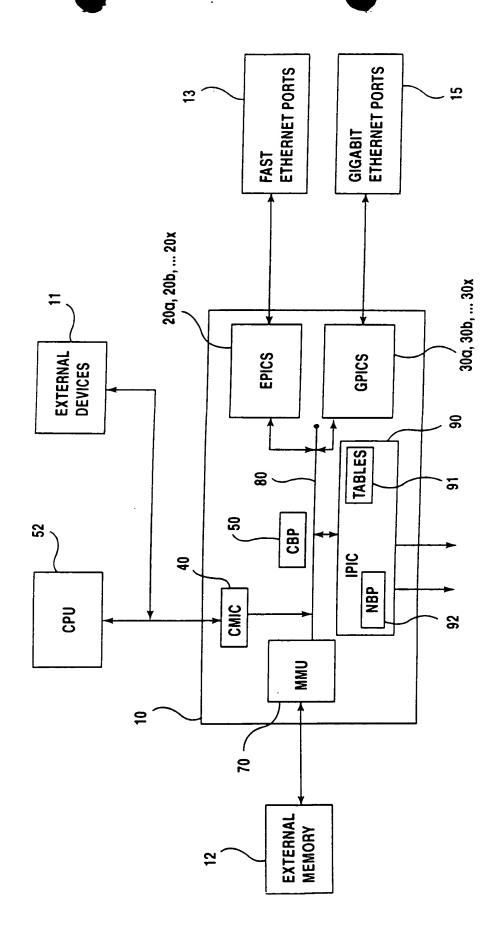
Fig.1



,>

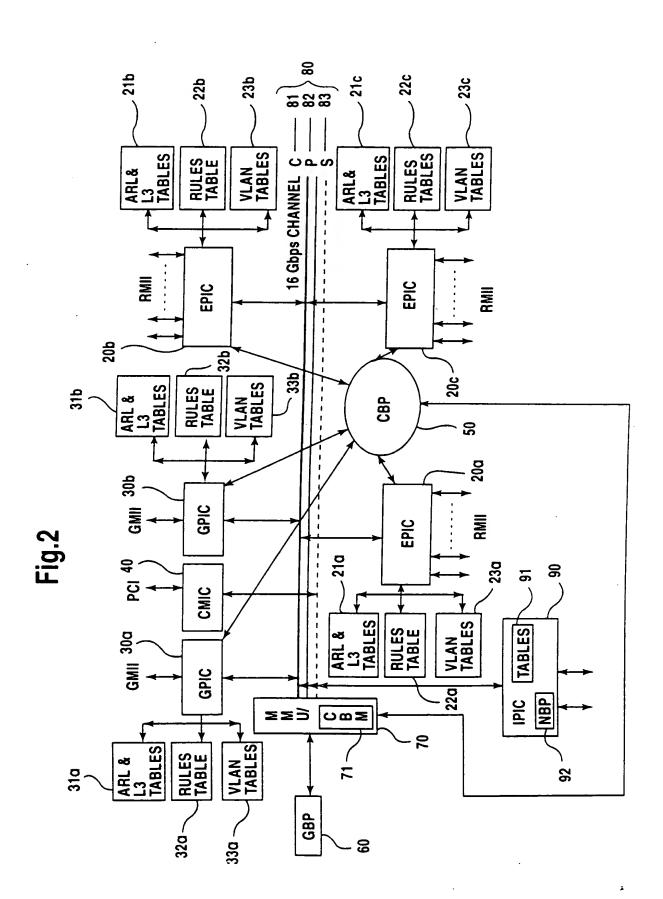
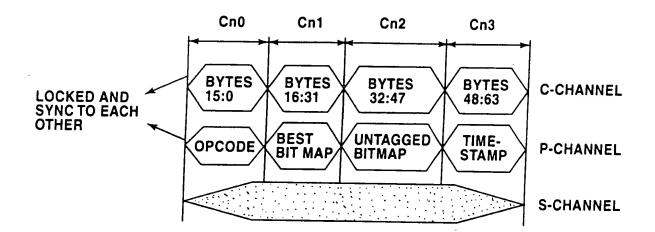


Fig.3



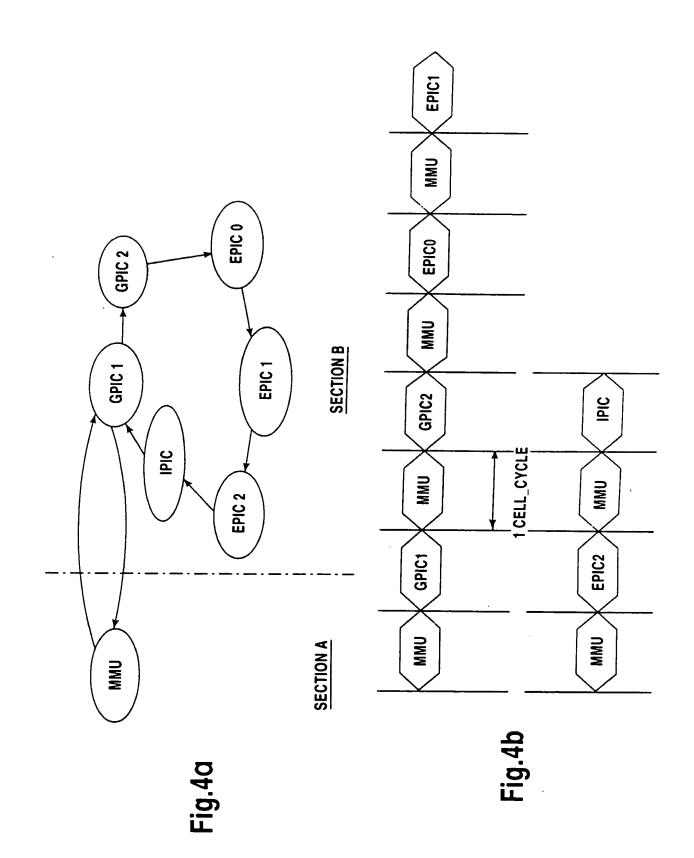


Fig.5

PROTOCOL CHANNEL MESSAGES

30	28	26	24	22	20	18	16	14		12	10	8		6	4	2	0
OPC	IP.	RESE		SRC	DEST	PORT	CO	S	S	E	CRC	Р	0	T		LEN	
ODE	IPX	RVED	CELL										_				`
											<u> </u>						
62	60	58	56	54	52	50	48	46	1 4	14	42	40	\top	38	36	34	32
						MO	DULE	D BIT	MAF	-							1
				_					-								
30	28	26	24	22	20	18	16	14	1	2	10	8	\top	6	4	7 2	0
R						Bc/	Mc PO	RTBI	TMA	P				<u> </u>	<u> </u>	<u> </u>	

62	60	58	56	54	52	50	48	46	4	4	42	40	13	38	36	34	32
PF	_			NEW IF	CHE	CKSUN			M	M	T-MOC		T		GID	MOD	C
M														<u> </u>		OPCC	DE
	- 66		- T												,		
30	28	26	24	22	20	18	16	14	1:		10	8		6	4	2	0
U			U	NTAG	GED P	ORTBI	TMAP /	SRC	POF	RT N	UMBE	R (b	it0	.5)			
		r	T			 											
62	60	58	56	54	52	50	48	46	44	1	42	40		8	36	34	32
RS	VD	MATCH	(ED			VLAN	I ID				SF	RC P	ORT	·	REN	NOTE F	ORT
		FILIER							_								
_30	28	26	24	22	20	18	16	14	12	2	10	8		3	4	2	0
			CPU	OPCO	DES							TIM	E ST	AMI	P		
62	60	58	56	54	52	50	48	46	44		42	40	3	8_	36	34	32
R						L3 PC	ORT BI	TMAF)								

Fig.6

SIDE BAND CHANNEL MESSAGES

30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	0
	OPCOE	Œ	DES DES DEV	T POR TINAT ID	T/ ION	SR	C POR	Т	DAT	A LEN		E	EC ODE	CC	os c
						A	DDRE	SS				<u></u>	····		
							DATA								
									-						

Fig.7
PRIOR ART

LAYER SEVEN- APPLICATION	
LAYER SIX- PRESENTATION	
LAYER FIVE- SESSION	
LAYER FOUR- TRANSPORT	
LAYER THREE- NETWORK	
LAYER TWO- DATA LINK	
LAYER ONE- PHYSICAL	

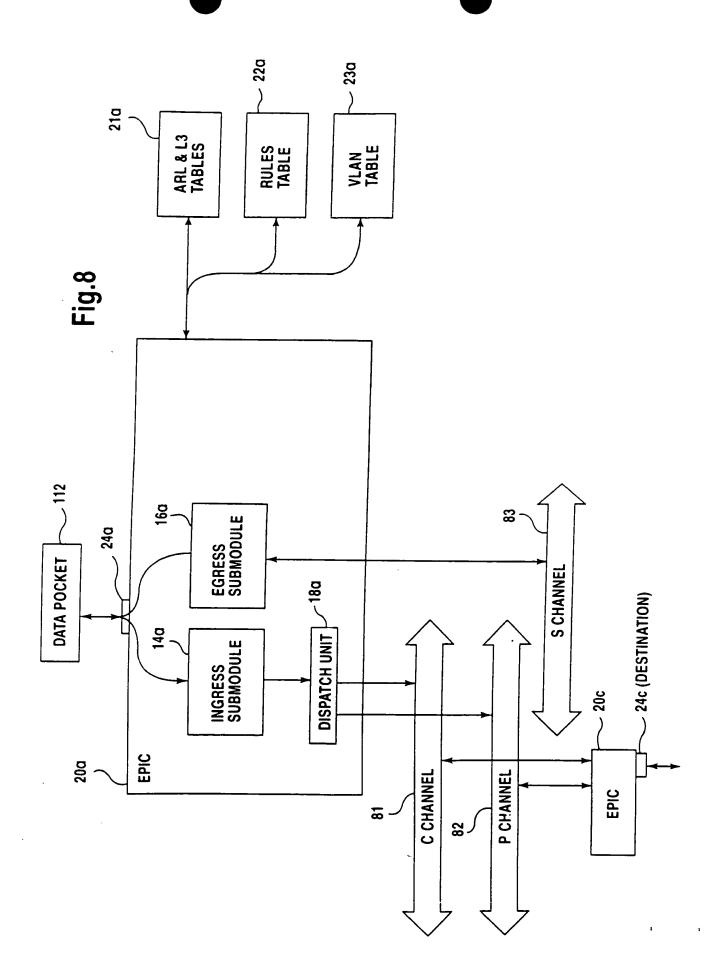
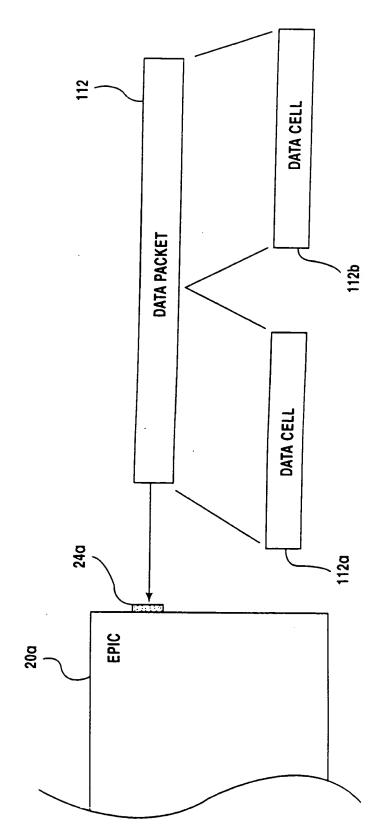


Fig.9



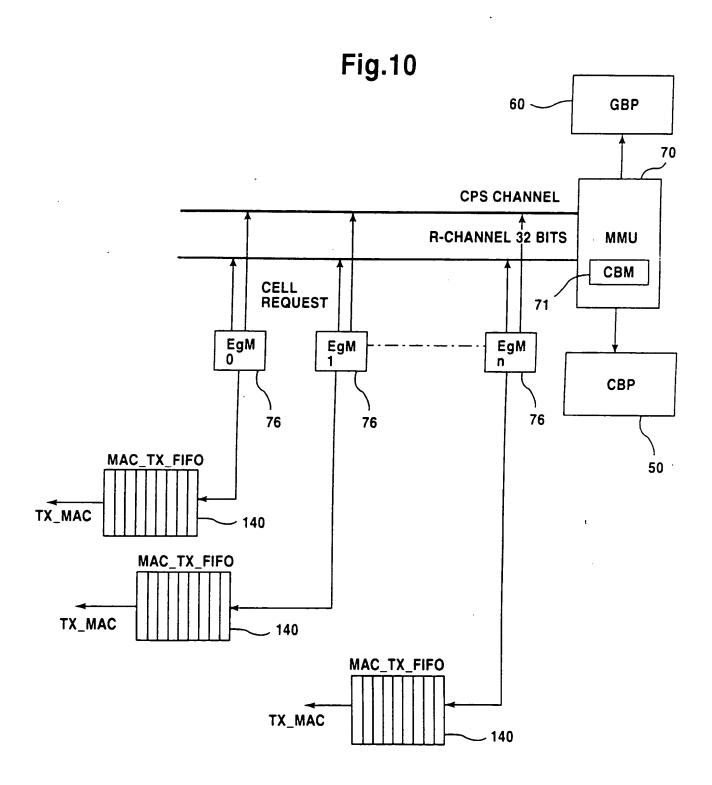


Fig.11

FC LC BC/MC Cpy_cnt (5b) Cell_length (7b) CRC (2b) NC_header (16b) Src Count (6) IPX IP ITime_Stamp (14b) O bits (2b) P NextCellLen (2b) CpuOpcode (4b) Cell_data (0.98)	Cell_data (10-27) Bytes	Cell_data (28-45) Bytes	Cell_data (45-63) Bytes
LINE 0	LINE 1 —	LINE 2	LINE 3

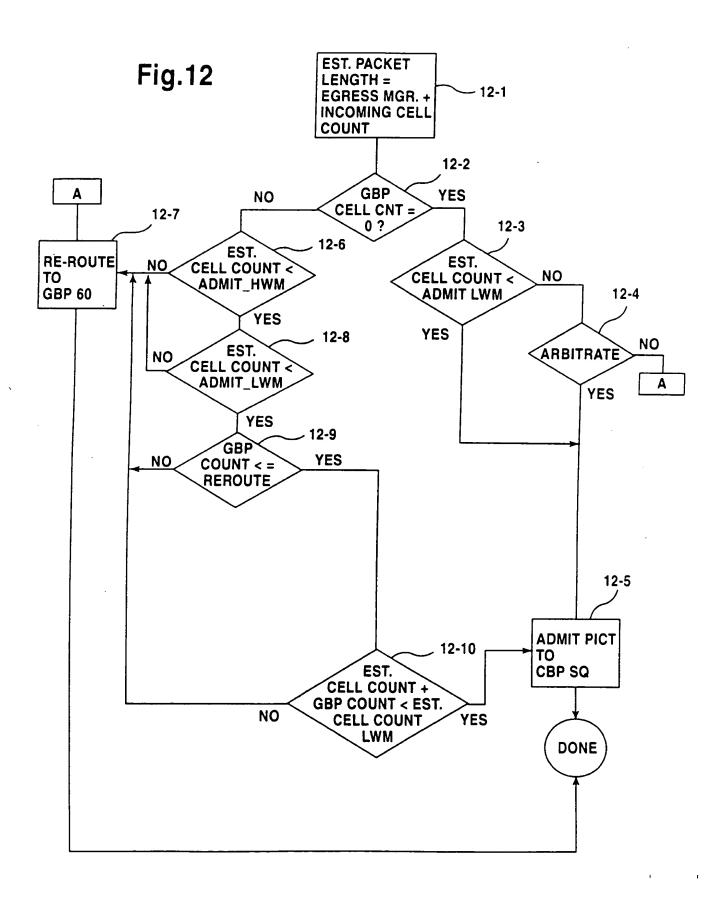


Fig.13

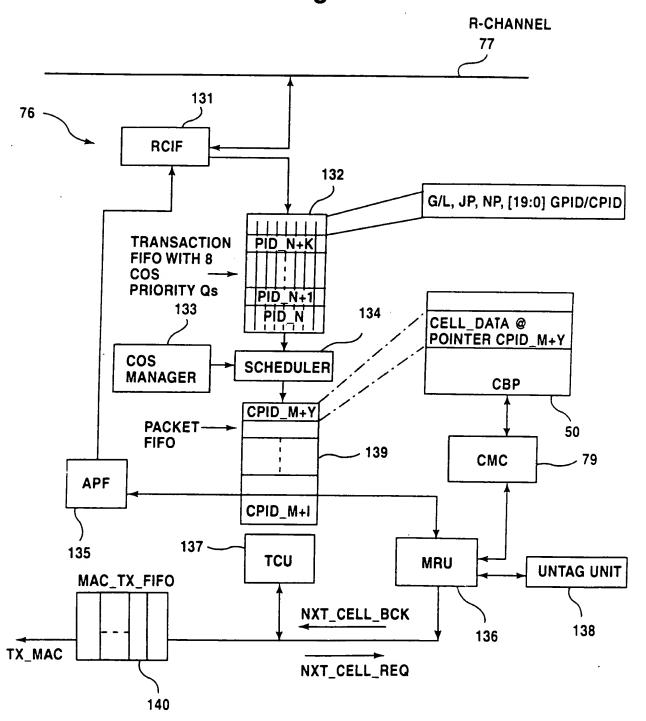


Fig.14

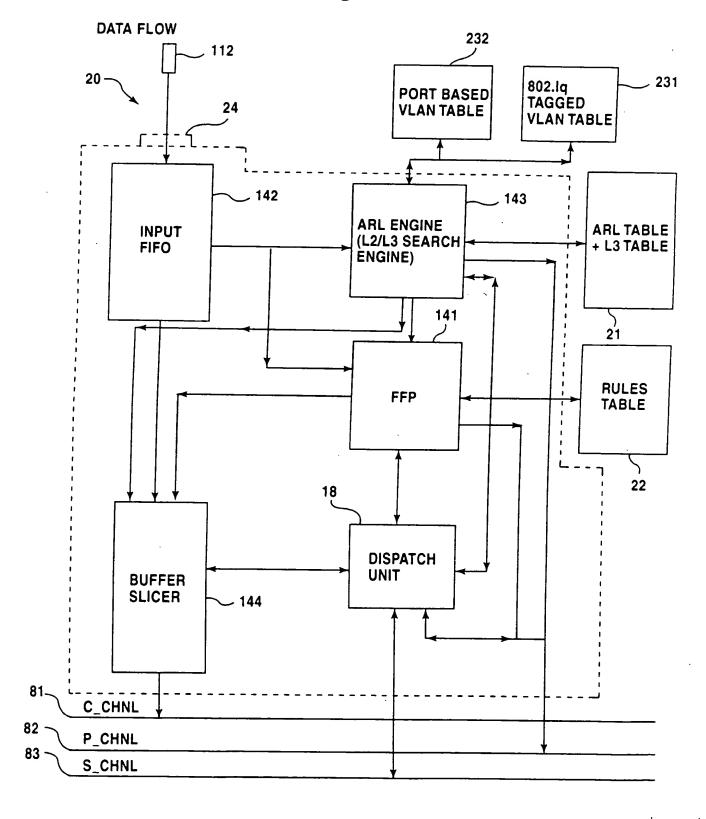
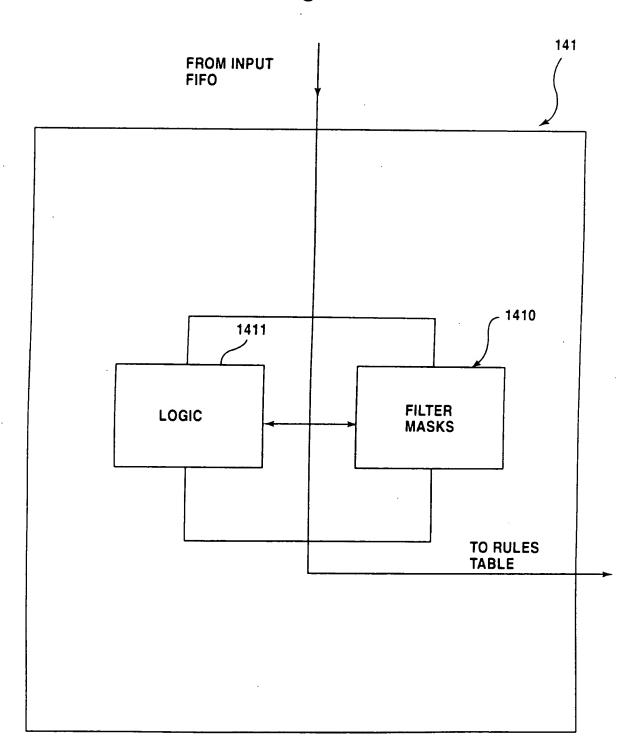
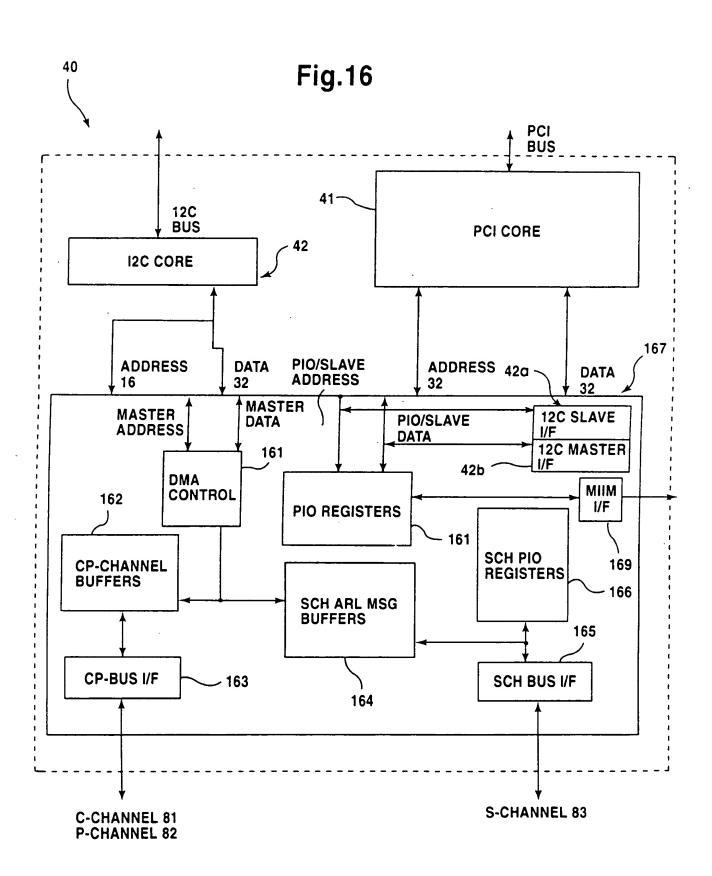


Fig.15





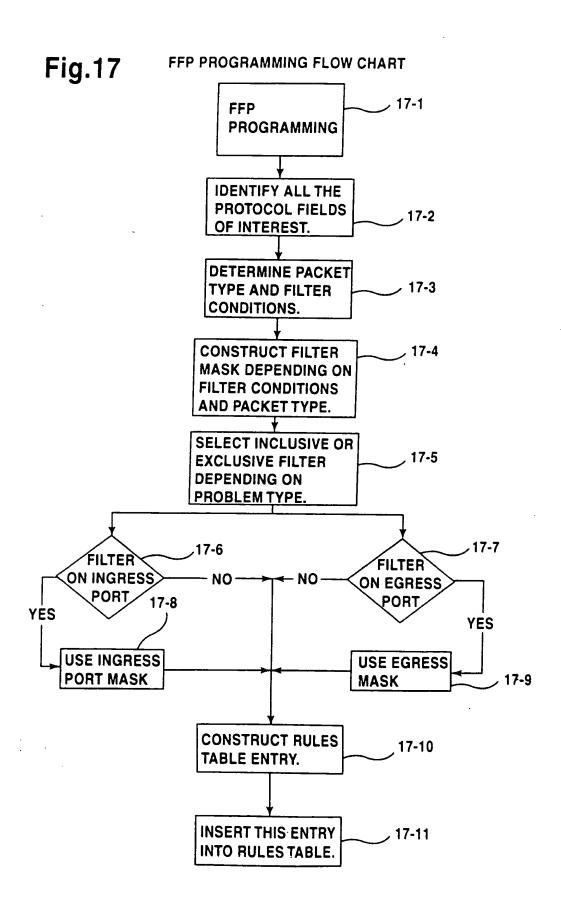


Fig.18

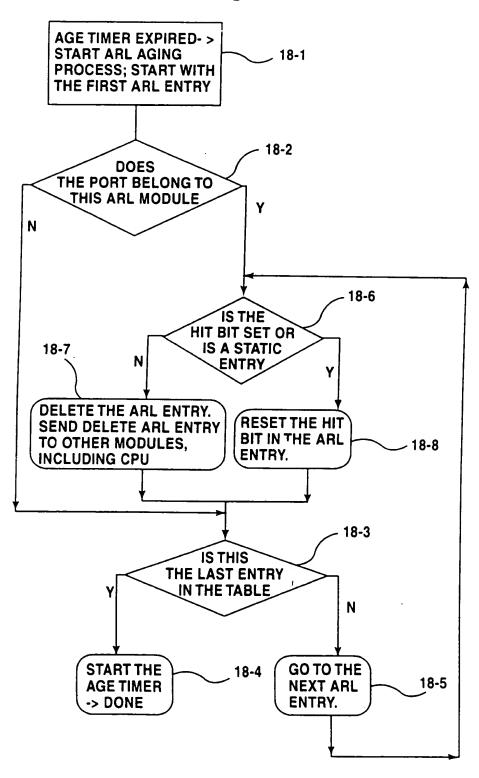
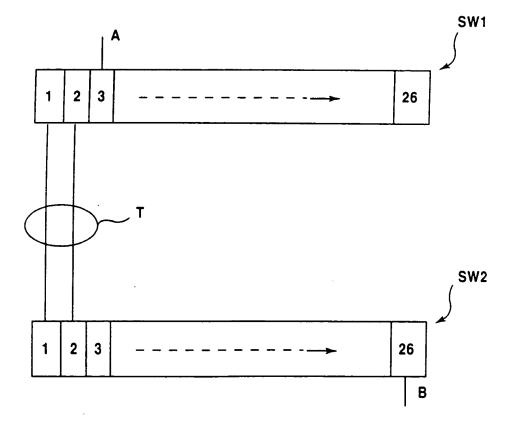


Fig.19



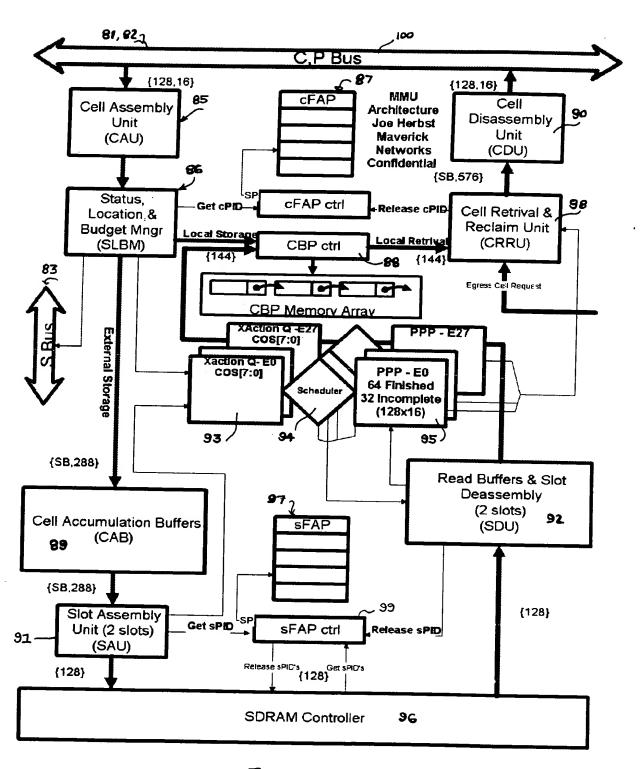


FIGURE 20

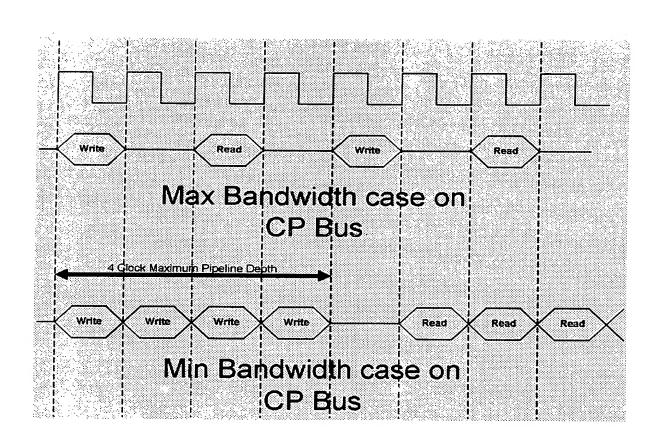
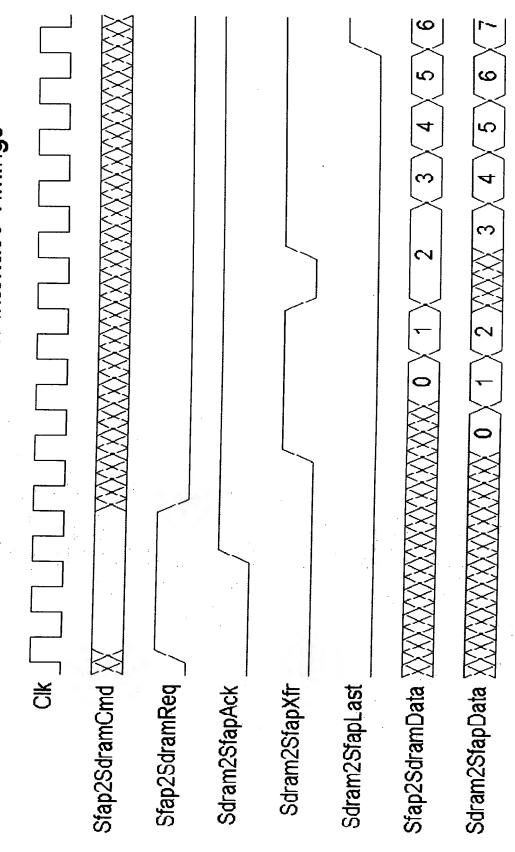


Figure 21

SFAP To SDRAM Scheduler Interface Timings



Fleure 22

FIGURE 23

SAU to SDRAM Scheduler Data Transfer

Ö			٠				_	_	_	-	-	-	-							
Sdram2SauAddr 📉 A		_ a	_ >		_ >	(< <	—		>		`							_	
Sdram2SauRd	< : <	ב	<)	<	ב [']	$\hat{\geq}$	$\stackrel{>}{>}$ $)$	Ш	\times	ட	\times	U	\times	I	\times	_	\times		\gtrsim
Sau2SdramData XXXXX	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	⋖	>	α	>	(/ >	<u> ر</u>		>	l	>	ł				•	,		
Sdram2SauLast	> > > > > > > > > > > > > > > > > > >	•	(נ	<)	<	ב		\times	Ц	\times	Щ	\times	U	<u>-</u> ×	I	\times `	_	¬ ×

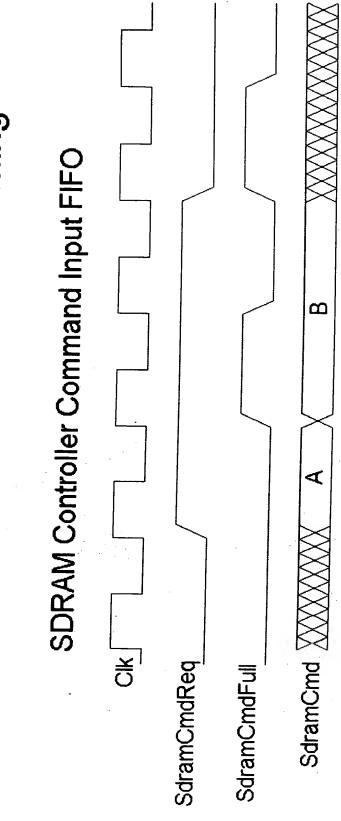
SDRAM Scheduler to SDU Data Transfer

	50 / 51 / C2 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		XXXX CO X C1 X DO X D1 XXXXXXXXX		
	X /	_	$\langle c2 \rangle$		
	< - 0		B1	,	
>	>	\			
>	a <	/	B		
	- (A1		
¥ '	- - T	ب	a O); 	
Clk Clk Sdram2SduAddr A4	Sdram2SduLd	Sdram2SduWr	Sdram2SduData XA1	Sdram2SduLast	
o C	am2	ım2S	12Sd	n2Sd	
_					

FIGURE 24

FIGURE 25

SDRAM Controller Interface Timing



SDRAM Controller Data Write FIFO

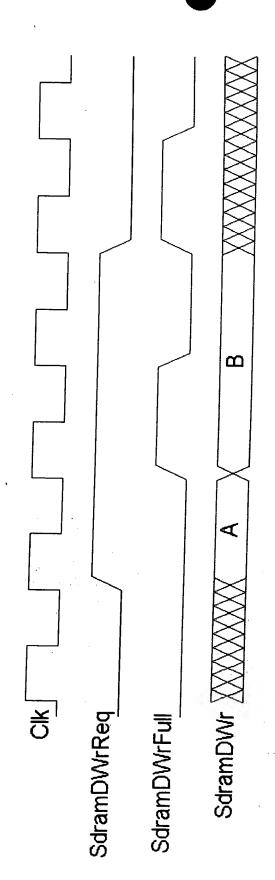
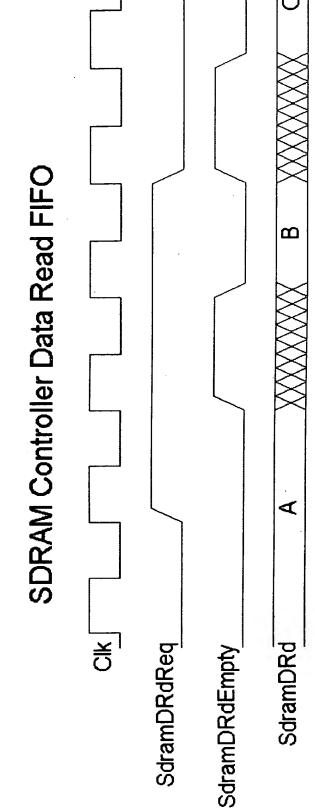


FIGURE 26

FIGURE 27



Field	Left	Right	Bits
Src	310	306	5
CPUOpcode	305	302	4
BC/MC Bitmap	301	270	32
Cos	269	267	3
Р	266	266	1
FC (S)	265	265	1
LC (E)	264	264	1
CRC	263	262	2
Len (0 = 64)	261	256	2 6
0	255	254	2
BC/MC	253	253	1
Copy Count (0 = 32)	252	248	5
Untagged Bitmap	247	216	32
IP	215	215	1
IPX	214	214	1
Time Stamp	213	200	14
Cell Data Bytes 24-0	199	0	200
Total			311

FIGURE 28

Cell Size	SAU Words	SDRAM Words
0.0	1	2
0 1	1	3
1 0	2	4
1 1	2	5

Figure 29

Field	Left	Right	Bits	First Only
Last Slot	313	313	1	Χ .
Next Slot ID	312	297	16	Х
Copy Count	296	292	5	X
CPUOpcode	291	288	4	
Cell Size	287	286	2	
Р	285	285	1	
FC	284	284	1	
LC	283	283	1	
CRC	282	281	2	
Len	. 280	275	6	
0	274	273	2	
BC/MC	272	272	1	
IP	271	271	1	
IPX	270	270	1	
Time Stamp	269	256	14	

Figure 30

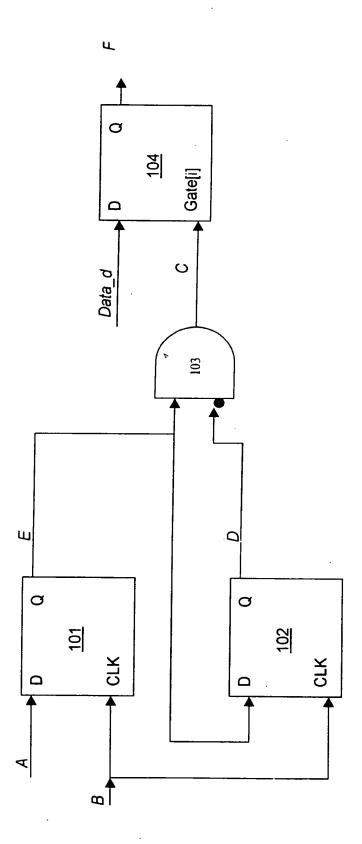
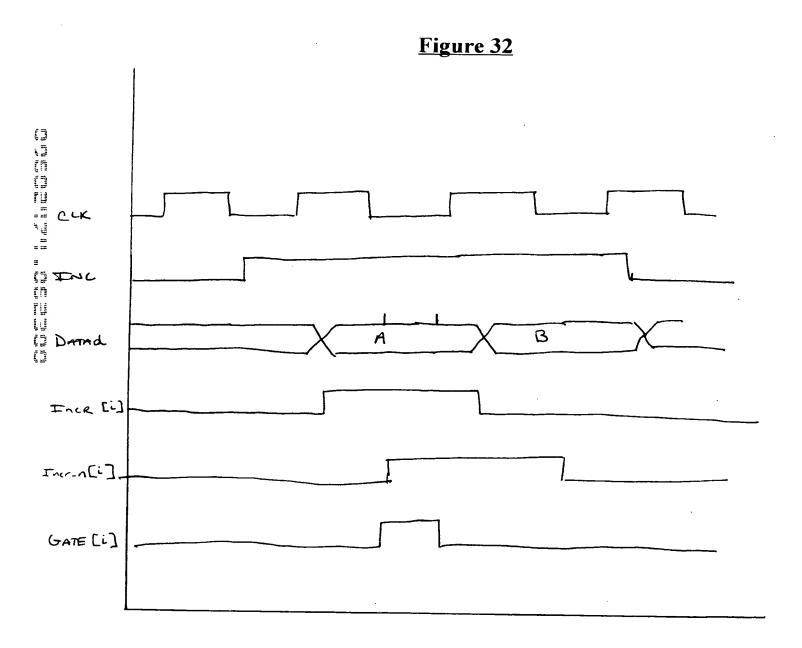


Figure 31



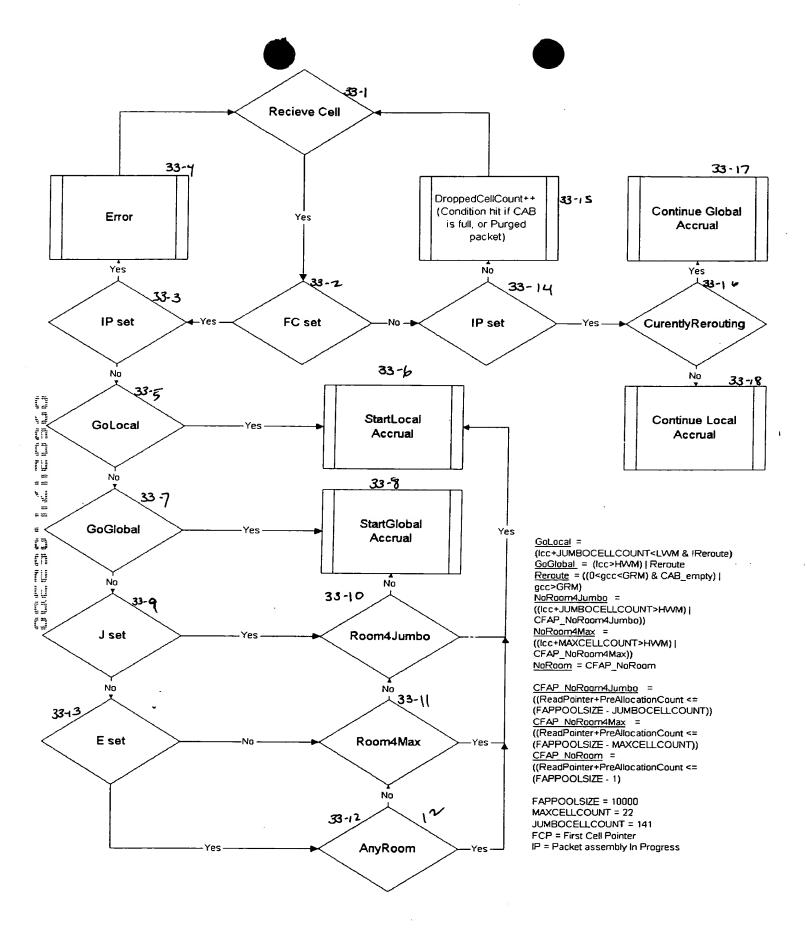


FIGURE 33

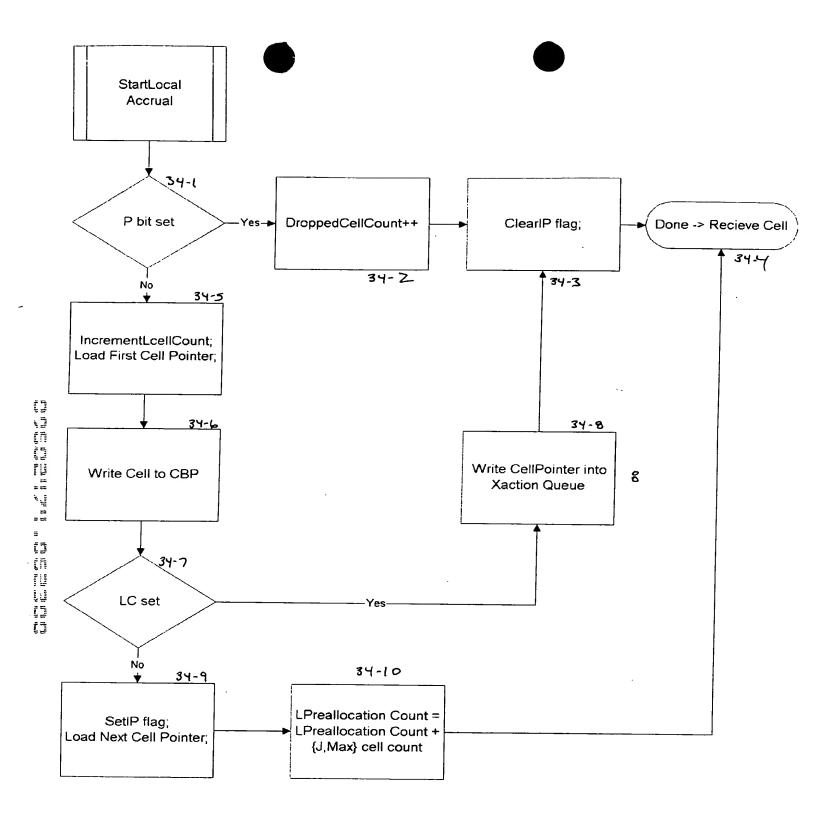
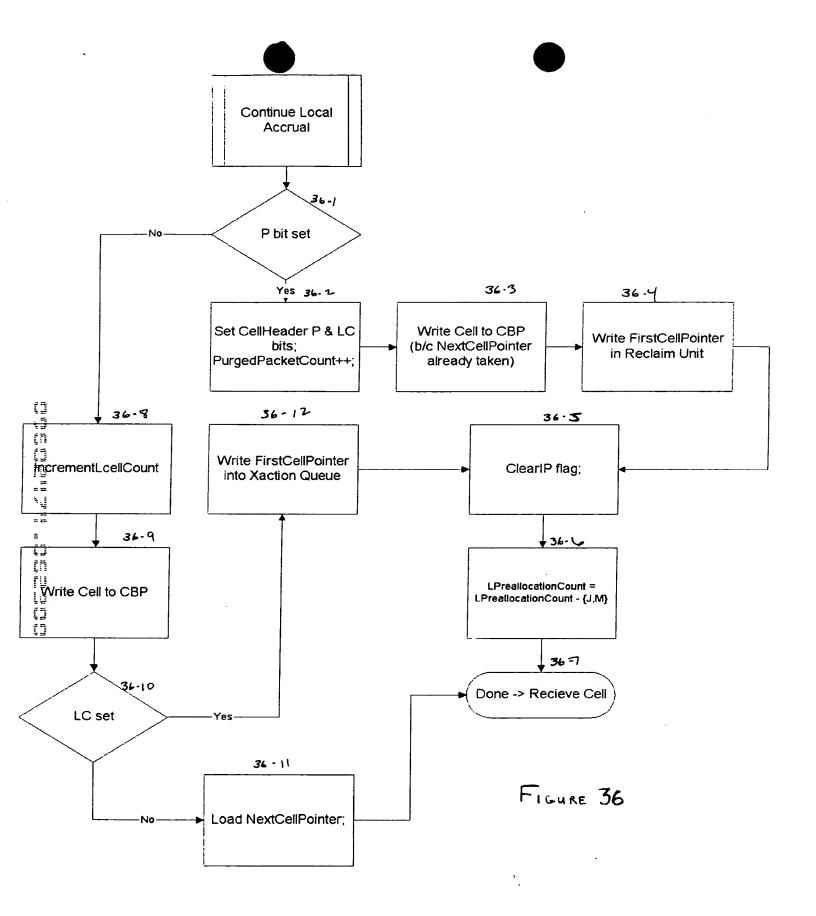


FIGURE 34

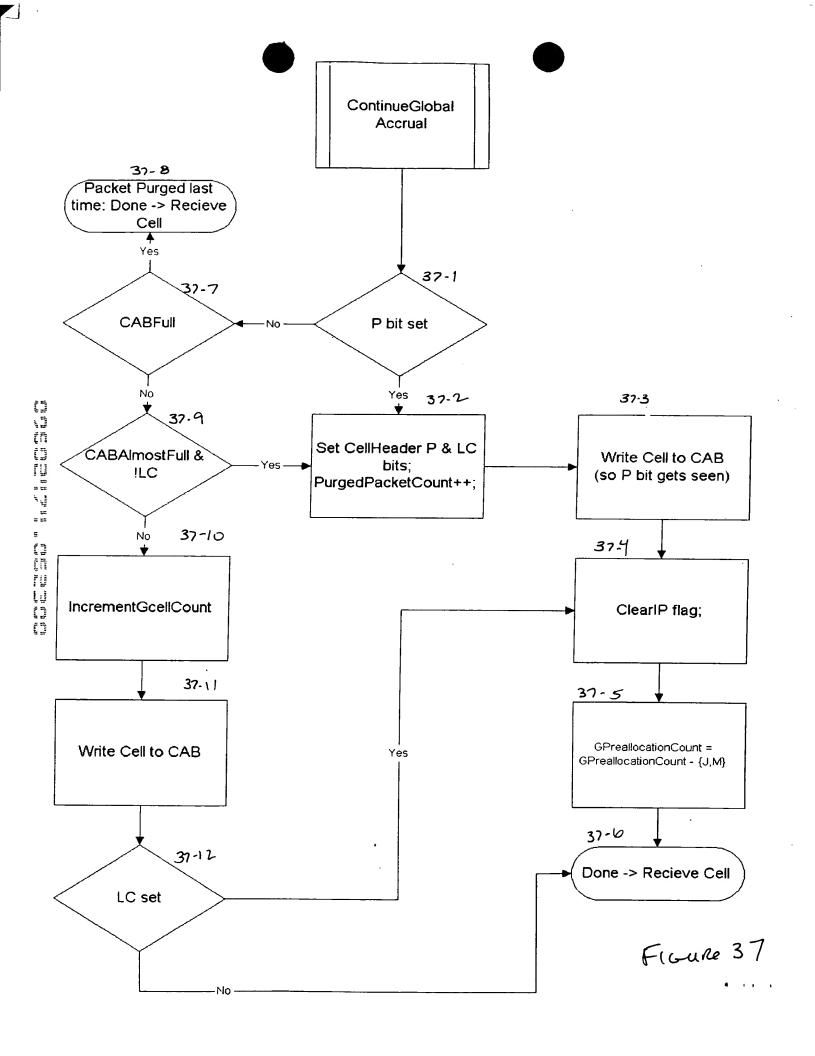
B B Alin B Will Bull Will Bull Will Bull Bull

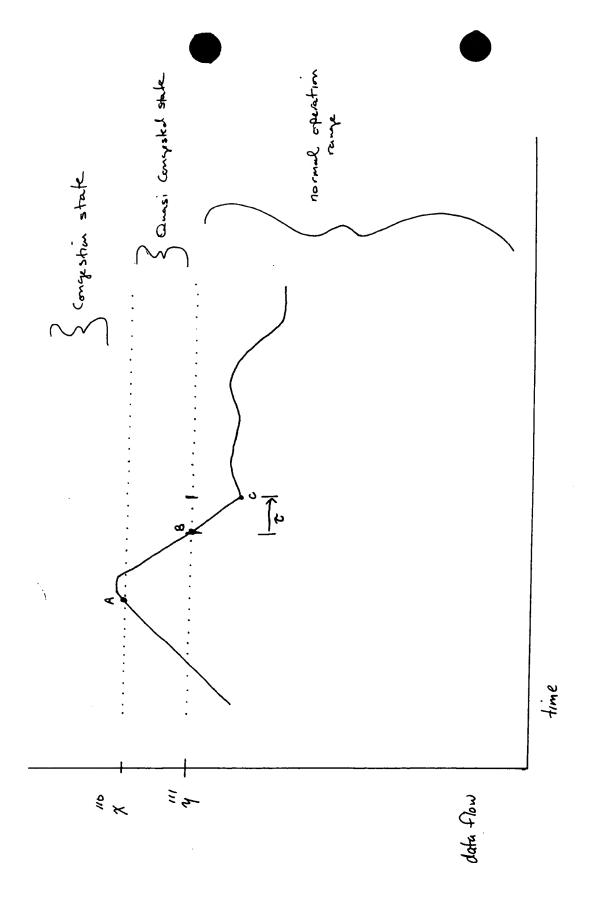
4.7.1

that the time and that that



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Floure 38

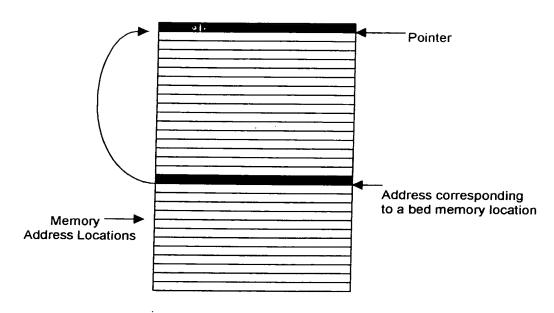


Figure 39